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DH	LAJ	2-154583	6-13-90	Japan				abstract			
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		OTHER	DOCUMENT(S) (#	ncluding Author, Title, Date, Pertin	nent Pages,	Etc.)					
DH DH	AO Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991										
D41-	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993										
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<u> </u>	AA	5,311,550	5-10-94	Fouche et al.	-					
	AB	4,630,287	12-16-86	Armstrong						
	AC	4,271,527	6-2-81	Armstrong						
	AD	5,050,188	9-17-91	Dirr						
	AE	5,398,073	3-14-95	Wei						
AF 5,452,015 9-19-95				Hulyalkar						
	AG	5,565,932	10-15-96	Citta et al.				_		
	AH 5,481,412 1-2-96			Bannai et al.						
DH	Al	3,909,721	9-30-75	Bussgang et al.						
			F	FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLA	ss	SUBCLASS	TRANS YES	SLATION S NO	
D4-	AJ	365431	4-25-90	EP					х	
	AK	485105	5-13-92	EP	_			x		
	AL	92/14343	8-20-92	wo				х		
	AM	89/08366	9-8-89	wo				х		
DH	AN	31193	7-1-81	EP	_			Х		
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D4	AO	Shinji Matsumoto Telecommunicat	o et al., "200 M lions Review, J	lb/s 16 QAM Digital Radio-Rel January 1982, vol. 24, no. 1, p.	lay Syste ages 65	m Oper -73.	rating in 4 and	5 GHz Banc	ds", Japan	
DH	AP			oding of Television Images, Pa er 2, 1990, no. 3, pages 259-26		mpatibl	e System", Sig	nal Process	iing	
DH	AQ	Mitsuaki Oshima	, "Constellation	n-Code Division Multiplex for [Digital H(OTV [™] , IE	EEE, 1992, pag	es 1086-10	92.	
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D4	_ AA	4,227,152	10-7-80	Godard et al.					-	
	АВ	4,525,846	6-25-85	Bremer et al.			_			
	AC	4,751,478	6-14-88	Yoshida						
	AD	4,891,806	1-2-90	Farias et al.		<u></u>				
	AE	4,903,125	2-20-90	Parker			_			
	AF	4,937,844	6-26-90	Kao			_			
	AG	5,164,963	11-17-92	Lawrence et al.						
	АН	5,555,275	9-1996	Oshima						
D4	- AI	5,565,926	10-15-96	Bryan et al.	-		_			_
			F	FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLAS	ss	SUBC	LASS	TRANS YES	LATION NO
DH	— AJ	311188	4-12-89	EP					Х	
	AK	329158	8-23-89	EP			·		х	
	AL	64-5135	1-10-89	JP				_	Х	
	AM	63-28145	2-5-88	JP					х	
DH	AN	62-133842	6-17-87	JP				_	х	
		ОТІ	HER DOCUMENT(S) (Including Author, Title, Date, Pertir	inent Pages,	Etc.)				
DH	AO	Tricia Hill et al., ' COM-31, June 1	"A Performance 983, no. 6, pag	e Study of NLA 64-State QAN ges 821-826.	//*, IEEE 1	Fransac	tions or	1 Comm	unications,	vol.
PH	AP	Hideki Ishio et al	l., "A Proposal o	of a Carrier Digital Transmiss	sion Syste	m Usin	g Multi-	Level A	PSK*, page	s 1-20.
PH	AQ	Shanmugam, "D	igital and Analo	og Communication Systems"	1979, p. 3	272.				
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71	+	AA	5,105,442	4-14-92	Wei					
		АВ	4,048,572	9-13-77	Dogliotti et al.		_			
		AC	5,282,019	1-25-94	Basile et al.			,		
		AD	5,311,547	5-10-94	Wei				_ ~	
		AE	5,267,021	11-30-93	Ramchandran et al.					
		AF	5,038,219	8-6-91	Yamashita et al.					
		AG	5,087,975	2-11-92	Citta et al.					
		АН	5,086,340	2-4-92	Citta et al.				~	
Dt	T]	Al	5,243,629	9-7-93	Wel	<u> </u>				
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\mathcal{D}^{2}	4-	AJ	53-137657	12-1-78	JP				x	
		AK	282298	9-14-88	Europe				х	
		AL	392538	10-17-90	Europe		_		х	
		АМ	490552	6-17-92	Europe				х	
DH		AN	506400	9-30-92	Europe				х	
			Οπ	HER DOCUMENT(S) (Including Author, Title, Date, Pertin	nent Pages,	Etc.)			
DH		AO	Khaled Fazel et a 1085	al., Combined r	multilevel coding and multires	solution m	nodulati	on, February 8	, 1993, Pag	es 1081-
DH		AP	P. Hoeher et al., Global Telecomr	Performance on nunications Co	of an RCPC-Coded OFDM-ba onference "Globecom '91", De	ised Digit	lal Audio 2-5, 199	o Broadcasting I1, Vol. 1 of 3, F	(DAB) Syst Pages 2.1.1	lem, IEEE - 2.1.7
DH	F	AQ	K. M. Uz et al., C Pages 283-292	ombined multir	resolution source coding and	modulati	ion for d	ligital broadcas	t of HDTV*,	1992,
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				U.S. PATENT DOCUMENTS		1 		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS		DATE IF
DH	- AA	5,142,353	8-25-92	Kageyama et al.			~	
·	АВ	5,197,061	3-23-93	Halbert-Lassalle et al.				
	AC	5,291,289	3-1-94	Hulyalkar et al.				
	AD	5,166,924	11-24-92	Moose				
	AE	4,940,954	7-10-90	Aubert et al.				
	AF 5,128,758 7-7-92			Azadegan et al.				_
AG 5,038,402 8-6-91				Robbins				_
DH AH 5,638,112 6-10-97			6-10-97	Bestler et al.				
			F	OREIGN PATENT DOCUMENTS				
DH		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO
	AI	448492	9-25-91	Europe				х
	AJ	485108	5-13-92	Europe		-	х	
	AK	525641	2-3-93	Europe			х	
	AL	540231	5-5-93	Europe			х	
DH	АМ	531046	3-10-93	Europe			х	
		071	HER DOCUMENT(S) (Including Author, Title, Date, Perti	inent Pages, Etc.)			
D4	AN	K. M. Uz et al., N	Aultiresolution 5	Source and Channel Coding (for Digital Broad	dcast of HDTV, 1	1992, Pages	s 61-69.
DH	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.							
DH	PH AP William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.							538-549.
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D4	AA	5,063,445	11-5-91	Nishizawa et al.				_		
	АВ	5,819,000	10-6-98	Oshima						
	AC	5,999,569	12-7-99	Oshima						
TH	AD	5,892,879	4-6-99	Oshima						
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DH	AE	7-99522	4-11-95	Japan			abstract			
	AF	7-79415	3-20-95	Japan			abstract			
	AG	5-75568	3-26-93	Japan		,	abstract			
	АН	86/07223	12-4-86	wo			х			
	AI	2 187 611	9-9-87	Great Britain			х			
	AJ	85/04541	10-10-85	wo			х			
	AK	4-196822	7-16-92	Japan			abstract			
	AL	2-166979	6-27-90	Japan			abstract			
	АМ	64-74836	3-20-89	Japan			abstract			
DH	AN	53-108215	9-20-78	Japan			abstract			
		ОТН	HER DOCUMENT(S) (Including Author, Title, Date, Pertin	nent Pages, Etc.)					
DH-	AO	Martin Vetterli et Systems and Sig	al., Multiresolu Jnal Processine	ution Coding Techniques for D g, Volume 3, May 1992, Page	Digital Televisions s 161-187.	n: A Review, M	ultidimension	ıal		
D#	AP	Ezio Biglieri et al	., Introduction	to Trellis-Coded Modulation w	vith Applications	s, April 6, 1992,	Pages 173-2	207.		
D4	AQ	English Languag	e Abstract of E	European Patent No. 93 30 75						
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D	4	AA	4,636,876	1-13-87	Schwartz				
		AB	4,855,692	8-8-89	Kennard et al.				_
		AC	4,873,701	10-10-89	Tretter				
		AD	4,958,360	9-18-90 .	Sari				-
		AE	5,115,453	5-19-92	Calderbank et al.				
		AF	5,168,509	12-1-92	Nakamura et al.				-
	AG 6,049,651 4-11-00 Oshi				Oshima				-
		АН	6,256,357	7-3-01	Oshima				
D	#	AI	5,214,656	5-1993	Chung et al.				
				F	FOREIGN PATENT DOCUMENTS				
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$\overline{\mathcal{D}}$	W-	AJ	122805	10-24-84	EP			х	
		ΑĶ	63-180280	7-25-88	JP			abstract	
		AL	64-68144	3-14-89	Japan			abstract	
		АМ	5-218978	8-27-93	Japan				х
Di	H	AN	3-69295	3-25-91	Japan				х
			OTI	HER DOCUMENT(S) (Including Author, Title, Date, Perlin	nent Pages, Etc.)			
124	4	AO	Kazuhiko Nitador Conference on C	ri, Synthesis of communication	f Multichannel Orthogonal VSb ns, June 14-16, 1976, Volume	B Signals by Qu 1, Pages 3-25 -	adrature Metho 3-29.	id, 1976 Inte	rnational
Dŧ	4	АР	Thomas M. Cove	er, Broadcast C	Channels, IEEE Transactions of	on Information T	heory, January	1972, Page	es 2-14
Dŧ	4	AQ	*Optimum Weight COM-26, No. 6, J		peech Signals", Sundberg, IEI ges 872-881.			ations, Volu	me
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TH	AA	5,170,413	12-8-92	Hess et al.					
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DH	АВ	57-39629	3-4-82	Japan				abstract	
	AC	58-161547	9-26-83	Japan				abstract	
	AD	63-180222	7-25-88	Japan	_			abstract	
	AE	92/22162	12-10-92	wo				х	
	AF 2-94814 4-5-90 Japan					abstract			
	AG	61-70861	4-11-86	Japan				abstract	
	АН	2-218279	8-30-90	Japan				abstract	
	Al	2,095,435	5-10-92	Canada				х	
	AJ	91/20137	12-26-91	wo				х.	
	AK	2-141049	5-30-90	Japan					х
	AL	2-195732	8-2-90	Japan				abstract	
	АМ	5-167633	7-2-93	Japan				abstract	
	AN	2-260726	10-23-90	Japan					х
DH	АО	58-161427	9-26-83	Japan	_			abstract	
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		AC	4,303,939	12-1-81	Step	hens et al.					_	
		AD	4,303,941	12-1-81	Ma	arti et al.	_					
		AE	4,309,726	1-5-82	Tan	aka et al.	-					
		AF	4,535,352	8-85	ŀ	laskell						
	AG		4,564,858	1-14-86	F	Resch						
	АН		4,581,639	4-8-86		Judge				~		
	Al		4,769,819	9-6-88	Mats	utani et al.						
		AJ	4,794,447	12-27-88	Tf	sinberg						
		AK	4,800,426	1-24-89	(Glenn	_				-	
		AL	4,817,192	3-28-89	Phil	lips et al.				~	_	
		АМ	5,007,088	4-9-91	0(oi et al.	_					
		AN	5,029,003	7-91	Jonn	nalagadda			-		_	
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AR Ryutaro OHMOTO et al., 'π/4-shift QPSK Subcarrier Transmiss					ssion", 1	991						
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DH	AA	5,181,112	1-19-93	Citta et al.				-
	AB	5,377,051	12-27-94	Lane et al. ←				
	AC	5,400,084	3-21-95	Scarpa				
	AD	5,576,902	11-19-96	Lane et al.				
	AE	5,218,622	6-8-93	Fazel et al.				
	AF	5,561,468	10-1-96	Bryan et al.				
	AG	5,598,220	1-97	Citta et al.				
DH	АН	5,802,241	9-1-98	Oshima				
	AI		<u> </u>	!				
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DH	AO			dulation for Data Transmissi 18, May 1990, pages 5-8 and		iose Time Has	Come", IEEE	-
D44	AĖ	B. Hirosaki, "An Orth Transactions on Cor	nogonally Multi mmunications,	iplexed QAM System Using Vol. Com-29, No. 7, July 19	the Discrete Fo 981, pages 982-	urier Transforr 989	n", IEEE	
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